

Title (en)  
PROCESS FOR THE PREPARATION OF 2,3,3,3-TRIFLUOROPROPENE

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON 2,3,3,3-TRIFLUORPROPEN

Title (fr)  
PROCÉDÉ DE PRÉPARATION DE 2,3,3,3-TRIFLUOROPROPÈNE

Publication  
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Application  
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Abstract (en)  
The invention provides a process for the preparation of 2,3,3,3-tetrafluoropropene (1234yf), the process comprising (a) contacting 1,1,2,3,3,3-hexafluoropropene (1216) with hydrogen in the presence of a hydrogenation catalyst to produce 1,1,2,3,3,3-hexafluoropropane (236ea); (b) dehydrofluorinating 236ea to produce 1,2,3,3,3-pentafluoropropene (1225ye); (c) contacting 1225ye with hydrogen in the presence of a hydrogenation catalyst to produce 1,2,3,3,3-pentafluoropropane (245eb); and (d) dehydrofluorinating 245eb to produce 1234yf; wherein the product from step (a), (b), (c) and/or (d) is subjected to a purification step.

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[X1] KNUNYANTS I L ET AL: "REACTIONS OF FLUORO OLEFINS. COMMUNICATION 13. CATALYTIC HYDROGENATION OF PERFLUORO OLEFINS", BULLETIN OF THE ACADEMY OF SCIENCES OF THE USSR, DIVISION OF CHEMICAL SCIENCES., 1960, pages 1312 - 1317, XP000578879, ISSN: 0568-5230

Citation (third parties)  
Third party : Anonymous  
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